

Curriculum vitae

Prof. Dr. Viktoria Weber

Personal Data

Date of birth 03-02-1967, Krems, Austria

Contact University for Continuing Education Krems

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Current Positions, Employment, and Faculty Appointments

since 2015 Full professor (§98) for Medical Biochemistry

Danube University Krems, Krems, Austria

since 2010 Vice-Rector for Research and Sustainable Development

Danube University Krems, Krems, Austria

since 2015 Head, Center for Biomedical Technology

Danube University Krems, Krems, Austria

since July 2018 Head, Department for Biomedical Research

Danube University Krems, Krems, Austria

Education

1985 - 1990 University of Natural Resources and Life Sciences (Biotechnology),

Vienna, Austria

1990 Graduation (Dipl.-Ing.), with distinction

1990 - 1993 Doctoral thesis

Institute for Chemistry, University of Natural Resources and Life Sciences,
Vienna, Austria

1993 Promotion (Dr. nat. techn.), with distinction

2008 Habilitation (venia docendi) for Biochemistry

University of Natural Resources and Life Sciences, Vienna, Austria

Academic and Professional Career

1991 - 1994 Researcher

Institute for Chemistry, University of Natural Resources and Life Sciences,
Vienna, Austria (Glycobiology, with Prof. Leopold März)

Oct 1992 Advanced Course on Glycoconjugates, Federal European Biochemical Societies (FEBS), Lille, France

1994 - 1996 Post-doctoral Training

Institute for Tumor Biology and Cancer Research, Medical University Vienna, Austria (with Prof. Dr. Ulrike Wintersberger)

1996 - 1999 Maternity leave

since 1999 Researcher, Center for Biomedical Technology, Danube University Krems

1999 - 2008 Group Leader Biochemistry, Center for Biomedical Technology, Danube University Krems (with Prof. Dr. Dieter Falkenhagen)

2013-2019 Head, Christian Doppler Laboratory

Innovative Therapy Approaches in Sepsis

Research Interests

- Blood-biomaterial interface and blood compatibility
- Extracorporeal therapies
- Extracellular vesicles (characterization and functional studies in inflammation and coagulation)
- Pathophysiology of sepsis www.sepsisresearch.at
- Advanced pathogen detection in blood stream infection

Honors and Awards

- Member, Leibniz-Sozietät der Wissenschaften zu Berlin (since 2021)
- Science2Business Award (2017)
- Liese Prokop Award (2005)
- Young Investigator Award, European Society for Artificial Organs (2000)
- Anton Kurir Award, University of Natural Resources and Life Sciences Vienna (1994)

Reviewing Activities & Board Memberships

Supervisory Board Vienna Biocenter Core Facilities (VBCF)

Board Complexity Science Hub www.csh.ac.at

Scientific Advisory Board, Österreichische Forschungsgemeinschaft

Reviewer for funding Österreichische Nationalbank

organizations Research Executive Agency EU FP7 PEOPLE: International Incoming, Outgoing, and Intra-European Fellowships

Romanian Council for Research and Development

Polish-Norwegian Research Programme

South Moravian Programme for Distinguished Researchers

National Research Foundation Singapore

Dutch Research Council

Netzwerke 2021 des Ministeriums für Kultur und Wissenschaft des Landes
Nordrhein-Westfalen, Deutschland

Reviewer for journals Acta Biomaterialia
Biomacromolecules
Biomaterials
Blood Purification
Cellulose
Chemical Reviews
Experimental and Molecular Pathology
Frontiers in Cell & Developmental Biology
Frontiers in Immunology
International Journal of Artificial Organs
Journal of Bioactive and Compatible Polymers
Journal of Biomaterials Science, Polymer Edition
Journal of Chromatography A
Journal of Extracellular Vesicles
Journal of Nanosciences and Nanotechnology
Journal of Nanotechnology
Nature Communications
Scientific Reports (Editorial Board Member)
Therapeutic Apheresis and Dialysis
Transfusion and Apheresis Science

Memberships in Professional Societies

ESAO European Society for Artificial Organs (Past President) www.esao.org
ISEV International Society for Extracellular Vesicles (Member)
ÖGMBT Austrian Association of Molecular Life Sciences and Biotechnology (Board Member and President) www.oegmbt.at
DSG Deutsche Sepsis-Gesellschaft
ESS European Shock Society
ASEV Austrian Society for Extracellular Vesicles (Co-Founder), www.asev.at

Organisation of Conferences

- Scientific Advisory Board, Conference of the European Society for Artificial Organs (since 2007)
- Annual meeting of the ÖGMBT, Vienna, (2010)
- ASAIO-ESAO Winter School, Semmering (2011, 2012)

- ESAO Summer School on Biomaterials, Krems (2011)
- Symposium Extracellular Vesicles in Inflammation (2015, 2016, 2019, 2021)
- BionanoMed (2016, 2017)
- Annual Meeting of the ESAO (2016, 2017)
- ESAO Winter School (2018-2020)
- ASEV Annual Meeting, Krems (2021)
- 48th Annual ESAO Conference, Krems, Austria (2022)

Peer-Reviewed Articles

Weber V, Eichhorn T (2024) Extracellular vesicles in blood products. *Transfus Apher Sci* 63(2): 103894. doi: 10.1016/j.transci.2024.103894.

Almeria C, Weiss R, Keck M, Weber V, Kasper C, Egger D (2024) Dynamic cultivation of human mesenchymal stem/stromal cells for the production of extracellular vesicles in a 3D bioreactor system. *Biotechnol Lett.* 46(2):279-293. doi: 10.1007/s10529-024-03465-4.

Cont D, Harm S, Schildboeck C, Kolm C, Kirschner AKT, Farnleitner A.H, Pilecky M, Zottl J, Hartmann J, Weber V. (2024) The neutralizing effect of heparin on blood-derived antimicrobial compounds: impact on antibacterial activity and inflammatory response. *Front Immunol.* 15:1373255. doi: 10.3389/fimmu.2024.1373255.

Ebeyer-Masotta M, Eichhorn T, Fischer MB, and Weber V (2024) Impact of production methods and storage conditions on extracellular vesicles in packed red blood cells and platelet concentrates, *Transfus Apher Sci* doi: 10.1016/j.transci.2024.103891.

Harm S, Schildboeck C, Cont D, Weber V (2024) Heparin enables the reliable detection of endotoxin in human blood samples using the Limulus amoebocyte lysate assay. *Sci Rep* 14:2410. doi: 10.1038/s41598-024-52735-8.

Wanner C, Vanholder R, Ortiz A, Davenport A, Canaud B, Blankestijn PJ, Masereeuw R, Kooman JP, Castellano G, Stamatialis D, Mitra S, Grooteman M, Weber V, Ebert T, Abdelrasoul A, Steppan S, Scheiwe R, Stenvinkel P (2024) Proceedings from a membrane symposium: scientific insights, innovations, and future trends for dialysis membranes to improve clinical outcomes. *Front. Nephrol.* 4:1455260. doi: 10.3389/fneph.2024.1455260.

Weiss R, and Mostageer M, Eichhorn T, Huber S, Egger D, Spittler A, Tripisciano C, Kasper C, Weber V (2024) The fluorochrome-to-protein ratio is crucial for the flow cytometric detection of tissue factor on extracellular vesicles. *Sci Rep* 14(1):6419. doi: 10.1038/s41598-024-56841-5.

Welsh J.A, et al. (2024) Minimal information for studies of extracellular vesicles (MISEV2023): from basic to advanced approaches. *J Extracell Vesicles.* 13(2):e12404. doi: 10.1002/jev2.12404.

Eichhorn T, Huber S, Weiss R, Ebeyer-Masotta M, Lauková L, Emprechtinger R, Bellmann-Weiler R, Lorenz I, Martini J; Pirklbauer M, Orth-Hoeller D, Wuerzner R, Weber V (2023) Infection with SARS-CoV-2 is associated with elevated levels of IP-10, MCP-1, and IL-13 in sepsis patients. *Diagnostics* 13(6), 1069. doi: 10.3390/diagnostics13061069.

Eichhorn T, Weiss R, Huber S, Ebeyer-Masotta M, Mostageer M, Emprechtinger R, Knabl L. Sr, Knabl L, Wuerzner R, Weber V (2023) Expression of tissue factor and platelet/leukocyte markers on extracellular vesicles reflect platelet-leukocyte interaction in severe COVID-19. *Int J Mol Sci* 24(23):16886. doi: 10.3390/ijms242316886.

- Almeria C, Kreß S, Weber V, Egger D. und Kasper C. (2022) Heterogeneity of mesenchymal stem cell-derived extracellular vesicles is highly impacted by the tissue/cell source and culture conditions. *Cell & Biosci* 12(1):51. doi: 10.1186/s13578-022-00786-7.
- Ebeyer-Masotta M, Eichhorn T, Weiss R, Lauková L, Weber V. (2022) Activated platelets and platelet-derived extracellular vesicles mediate COVID-19-associated immunothrombosis. *Front Cell Dev Biol* 10:914891. doi: 10.3389/fcell.2022.914891.
- Kny E, Reiner-Rozman C, Dostalek J, Hassel A.W, Nöhammer C, Pfaffeneder-Mantai F, Szunerits S, Weber V, Knoll W. and Kleber C. (2022) State of the art of chemosensors in a biomedical context. *Chemosensors* 10:199. doi: 10.3390/chemosensors10060199.
- Semak V, Eichhorn T, Weiss R, Weber V. (2022) Polyzwitterionic coating of porous adsorbents for therapeutic apheresis. *J Funct Biomater* 13(4):216. doi: 10.3390/jfb13040216.
- Steinberger S, Karuthedom George S, Lauková L, Weiss R, Tripisciano C, Marchetti-Deschmann M, Weber V, Allmaier G. and Weiss V.U. (2022) Targeting the structural integrity of extracellular vesicles via nano electrospray gas-phase electrophoretic mobility molecular analysis (nES GEMMA). *Membranes* 12(9):872. doi: 10.3390/membranes12090872.
- Summer S, Rossmannith E, Pasztorek M, Fiedler C, Gröger M, Rauscher S, Weber V. and Fischer M.B. (2022) Mesenchymal stem cells support human vascular endothelial cells to form vascular sprouts in human platelet lysate-based matrices. *PlosOne* Dec 15;17(12):e0278895. doi: 10.1371/journal.pone.0278895.
- Ebeyer-Masotta M, Eichhorn T, Weiss R, Semak V, Lauková L, Fischer MB, Weber V (2022) Heparin-functionalized adsorbents eliminate central effectors of immunothrombosis, including platelet factor 4, high mobility group box 1 protein, and histones. *Int J Mol Sci* 23:1823.
- Pilecky M, Harm S, Bauer C, Zottl J, Emprechtinger R, Eichhorn T, Schildböck C, Ecker M, Willheim M, Weber V, Hartmann J (2021) Performance of Lateral Flow Assays for SARS-CoV-2 compared to RT-qPCR. *J Infect* Jan 14: S0163-4453(22)00011-1.
- Steinberger S, Karuthedom George S, Lauková L, Weiss R, Tripisciano C, Birner-Gruenberger R, Weber V, Allmaier G, Weiss VU (2021) A possible role of gas-phase electrophoretic mobility molecular analysis (nES GEMMA) in extracellular vesicle research. *Anal Bioanal Chem* 413(30):7341-7352.
- Rock G, Weber V, Stegmayr B (2021) Therapeutic plasma exchange (TPE) as a plausible rescue therapy in severe vaccine-induced immune thrombotic thrombocytopenia. *Transfus Apher Sci* Aug;60(4):103174.
- Huber S, Knoll, MA, Berktold M, Würzner R, Brindlmayer A, Weber V, Posch AE, Mrazek K, Lepuschitz S, Ante M, Beisken S, Orth-Höller D, Weinberger J (2021) Genomic and phenotypic analysis of linezolid-resistant *Staphylococcus epidermidis* in a tertiary hospital in Innsbruck, Austria. *Microorganisms* 9:1023.
- Karuthedom George S, Lauková L, Weiss R, Semak V, Fendl B, Weiss VU, Steinberger S, Allmaier G, Tripisciano C and Weber V (2021) Comparative analysis of platelet-derived extracellular vesicles using flow cytometry and nanoparticle tracking analysis. *Int J Mol Sci* 22(8):3839.
- Fendl B, Weiss R, Eichhorn T, Linsberger I, Afonyushkin T, Puhm F, Binder CJ, Fischer MB, Weber V (2021) Extracellular vesicles are associated with C-reactive protein in sepsis and elicit a pro-inflammatory response in human monocytes. *Sci Rep* 11(1):6996.
- Pasztorek M, Mrazova D, Rossmannith E, Walzer S, Rauscher S, Groeger M, Weber V, Rychtarikova-Stysova R, Stys D, and Fischer MB (2021) Stress fiber formation, mitochondrial morphology and membrane properties of human mesenchymal stem cells cultured in plastic adherence or in spherical aggregates. *J Regen Med* 10:1.
- Huber S, Weinberger J, Pilecky M, Lorenz IH, Schildberger A, Weber V, Fuchs S, Posch W, Knabl L, Würzner R, Posch A (2021) A high leukocyte count and administration of hydrocortisone hamper PCR-based diagnostics for bloodstream infections. *Eur J Clin Microbiol Infect Dis* Jul;40(7):1441-1449.
- Eichhorn T, Linsberger I, Lauková L, Tripisciano C, Fendl B, Weiss R, König F, Valicek G, Miestinger G, Hörmann C, Weber V (2021) Analysis of inflammatory mediator profiles in sepsis patients reveals

that extracellular histones are strongly elevated in non-survivors *Mediators Inflamm* Mar 17;2021:8395048.

Lauková L, Weiss R, Semak V, Weber V (2021) Desialylation of platelet surface glycans enhances platelet adhesion to adsorbent polymers in whole blood lipoprotein apheresis. *Int J Artif Organs* Jun;44(6):378-384.

Tripisciano C, Weiss R, Karuthedom George S, Fischer MB, Weber V (2020) Extracellular vesicles derived from platelets, red blood cells, and monocyte-like cells differ regarding their ability to induce factor XII-dependent thrombin generation. *Front Cell Dev Biol* 8:298.

Wisgrill L, Lamm C, Hell L, Thaler J, Berger A, Weiss R, Weber V, Rinoesl H, Hiesmayr MJ, Spittler A, Bernardi M (2020) Influence of hemoadsorption during cardiopulmonary bypass on blood vesicle count and function. *J Transl Med* 18(1):202.

Weiss VU, Balantic K, Pittenauer E, Tripisciano C, Friedbacher G, Weber V, Marchetti-Deschmann M, Allmaier G (2020) Nano electrospray differential mobility analysis based size selection of liposomes and very-low density lipoprotein particles for offline hyphenation to MALDI mass spectrometry. *J Pharm Biomed Anal* 179:112998.

Pasztorek M, Rossmann E, Mayr C, Hauser F, Jacak J, Ebner A, Weber V, Fischer MB (2019) Influence of platelet lysate on 2D and 3D amniotic mesenchymal stem cell cultures. *Front Bioeng Biotechnol* 7:338.

Almeria C, Weiss R, Roy M, Tripisciano C, Kasper C, Weber V, Egger D (2019) Hypoxia conditioned mesenchymal stem cell-derived extracellular vesicles induce increased vascular tube formation in vitro. *Front Bioeng Biotechnol* 7:292.

Fendl B, Weiss R, Eichhorn T, Spittler A, Fischer MB, Weber V (2019) Storage of human whole blood, but not isolated monocytes, preserves the distribution of monocyte subsets. *Biochem Biophys Res Commun* 517(4):709-714.

Pilecky M, Schildberger A, Knabl L, Orth-Höller D, Weber V (2019) Influence of antibiotic treatment on the detection of *S. aureus* in whole blood following pathogen enrichment. *BMC Microbiol* 19(1):180.

Pilecky M, Schildberger A, Orth-Höller D, Weber V (2019) Pathogen enrichment from whole blood for diagnostic and therapeutic applications: prospects and limitations. *Diagn Microbiol Infect Dis* 94(1):7-14.

Fendl B, Eichhorn T, Weiss R, Tripisciano C, Spittler A, Fischer MB, Weber V (2018) Differential interaction of platelet-derived extracellular vesicles with circulating immune cells: roles of TAM receptors, CD11b, and phosphatidylserine. *Frontiers in Immunology* 9:2797.

Théry C, Witwer KW, Weber V, et al. (2018) Minimal information for studies of extracellular vesicles 2018 (MISEV2018): a position statement of the International Society for Extracellular Vesicles and update of the MISEV2014 guidelines. *Journal of Extracellular Vesicles* 7:1, Article ID 1535750.

Egger D, Tripisciano C, Weber V, Kasper C (2018) Dynamic cultivation of mesenchymal stem cell aggregates. *Bioengineering (Basel)* 5(2).

Gubensek J, Strobl K, Harm S, Weiss R, Eichhorn T, Buturovic-Ponikvar J, Weber V, Hartmann J (2018) Influence of citrate concentration on the activation of blood cells in an in vitro dialysis setup. *PLoS One* 13(6):e0199204.

Weiss R, Gröger M, Rauscher S, Fendl B, Eichhorn T, Fischer MB, Spittler A, Weber V (2018) Differential interaction of platelet-derived extracellular vesicles with leukocyte subsets in human whole blood. *Sci Rep* 8(1):6598.

Mushahary D, Spittler A, Kasper C, Weber V, Charwart V (2018) Isolation, cultivation, and characterization of human mesenchymal stem cells. *Cytometry A* 93(1):19-31.

Eichhorn T, Hartmann J, Harm S, Linsberger I, König F, Valicek G, Miestinger G, Hörmann C, Weber V (2017) Clearance of selected cytokines with continuous veno-venous hemodialysis using Ultraflux EMiC2 versus Ultraflux AV1000S. *Blood Purif* 44:260-266.

- Tripisciano C, Weiss R, Eichhorn T, Spittler A, Heuser T, Fischer MB, Weber V (2017) Different potential of extracellular vesicles to support thrombin generation: Contributions of phosphatidylserine, tissue factor, and cellular origin. *Sci Rep* 7(1):6522.
- Weiss R, Eichhorn T, Spittler A, Micusik M, Fischer MB, Weber V (2017) Release and cellular origin of extracellular vesicles during circulation of whole blood over adsorbent polymers for lipid apheresis. *J Biomed Mater Res B* 105(3):636-646.
- Weber V, Groth T (2017) Materials, surfaces, and systems for extracorporeal therapies and beyond. *Int J Artif Organs* 40(1):1-3.
- Eichhorn T, Fischer MB, Weber V (2017) Mechanisms of endothelial activation in sepsis and cell culture models to study the heterogeneous host response. *Int J Artif Organs* 40(1):9-14.
- Semak V, Fischer MB, Weber V (2017) Biomimetic principles to develop blood compatible surfaces. *Int J Artif Organs* 40(1):22-30.
- Strobl K, Harm S, Weber V, Hartmann J (2017) The role of ionized calcium and magnesium in regional citrate anticoagulation and its impact on inflammatory parameters. *Int J Artif Organs* 40(1):15-21.
- Weiss R, Eichhorn T, Spittler A, Mičušík M, Fischer MB, Weber V (2017) Release and cellular origin of extracellular vesicles during circulation of whole blood over adsorbent polymers for lipid apheresis. *J Biomed Mater Res B* 105(3):636-646.
- Weiss R, Fischer MB, Weber V (2017) The impact of citrate concentration on adhesion of platelets and leukocytes to adsorbents in whole blood lipid apheresis. *J Clin Apher* 32(6):375-383.
- Eichhorn T, Rauscher S, Hammer C, Gröger M, Fischer MB, Weber V (2016) Polystyrene-divinylbenzene based adsorbents reduce endothelial activation and monocyte adhesion under septic conditions in a pore-size dependent manner. *Inflammation* 39(5):1737-1746.
- Fendl B, Weiss R, Fischer MB, Spittler A, Weber V (2016) Characterization of extracellular vesicles in whole blood: Influence of pre-analytical parameters and visualization of vesicle-cell interactions using imaging flow cytometry. *Biochem Biophys Res Commun* 478(1):168-173.
- Buchacher T, Ohradanova-Repic A, Stockinger H, Fischer MB, Weber V (2015) Macrophage M2 polarization favors survival of the intracellular pathogen *C. pneumoniae*. *PLoS One* 10(11):e0143593
- Buchacher T, Wiesinger-Mayr H, Vierlinger K, Rürger BM, Stanek G, Fischer MB, Weber V (2014) Human blood monocytes support persistence, but not replication of the intracellular pathogen *C. pneumoniae*. *BMC Immunology* 15:60.
- Tripisciano C, Eichhorn T, Harm S, Weber V (2014) Adsorption of the Inflammatory Mediator High-Mobility Group Box 1 by Polymers with Different Charge and Porosity. *Biomed Research International* 238160.
- Weiss R, Spittler A, Schmitz G, Fischer MB, Weber V (2014) Thrombocyte adhesion and release of extracellular microvesicles correlate with surface roughness of adsorbent polymers for lipid apheresis *Biomacromolecules*, 15(7):2648-2655
- La Spina R, Tripisciano C, Mecca T, Cunsolo F, Weber V, Mattiasson B (2014) Chemically modified poly(2-hydroxyethyl methacrylate) cryogel for the adsorption of heparin. *J Biomed Materials Research B* 102(6):1207-1216.
- Weber V, Tripisciano C (2013) Application Potential of Cellulose-Based Adsorbents in Extracorporeal Blood Purification. *Trends in Carbohydrate Research* 5(2):1-6
- Schildberger A, Rossmann E, Eichhorn T, Strassl K, Weber V (2013) Monocytes, Peripheral Blood Mononuclear Cells, and THP-1 Cells Exhibit Different Cytokine Expression Patterns Following Stimulation with Lipopolysaccharide. *Mediators of Inflammation* 697972
- Eichhorn T, Ivanov AE, Dainiak MB, Leistner A, Linsberger I, Jungvid H, Mikhalovsky SV, Weber V (2013) Macroporous composite cryogels with embedded polystyrene divinylbenzene microparticles for the adsorption of toxic metabolites from blood. *Journal of Chemistry* 348412

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- Tripisciano C, Kozynchenko OP, Linsberger I, Phillips GJ, Howell CA, Sandeman SR, Tennison SR, Mikhalovsky SV, Weber V, and D Falkenhagen (2011) Activation-Dependent Adsorption of Cytokines and Toxins Related to Liver Failure to Carbon Beads. *Biomacromolecules* 12(10):3733-3740
- Schildberger A, Buchacher T, Weber V, and D Falkenhagen (2011) Adsorptive Modulation of Inflammatory Mediators Dampens Endothelial Cell Activation. *Blood Purif* 32(4):286-295.
- Ettenauer M, Loth F, Thümmler K, Fischer S, Weber V, and D Falkenhagen (2011) Characterization and functionalization of cellulose microbeads for extracorporeal blood purification. *Cellulose* 18:1257-1263.
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- Eifler R, Lind J, Falkenhagen D, Weber V, Fischer MB, and R Zeillinger (2011) Enrichment of circulating tumor cells from a large blood volume using leukapheresis and elutriation: a proof of concept. *Clinical Cytometry* 80(2):100-111.
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Weber V., Wernitznig A., Hager G., Harata M., Frank P., and U. Wintersberger (1997) Purification and nucleic-acid-binding properties of a *Saccharomyces cerevisiae* protein involved in the control of ploidy. *Eur. J Biochem* 249:309-317.

Weber V, Harata M, Hauser H, and U Wintersberger (1995) The actin-related protein Act3p of *Saccharomyces cerevisiae* is located in the nucleus. *Mol Biol Cell* 6:1263-1270.

Kubelka V, Altmann F, and L März (1995) The asparagine-linked carbohydrate of honeybee venom hyaluronidase. *Glycoconjugate J* 12:77-83.

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Voss T, Ergülen E, Ahorn H, Kubelka V, Sugiyama K, Maurer-Fogy I, and J Glössl (1993) Expression of human interferon ω 1 in Sf9 cells. *Eur J Biochem* 217:913-919.

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Staudacher E, Kubelka V, and L März (1992) Distinct N-glycan fucosylation potentials of three lepidopteran cell lines. *Eur J Biochem* 207:987-993.

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